THE UNITED SHATES OF AMIERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Rogers Brothers Seed Company

TUlkereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to extide others from selling the variety, or offering it for sale, or reproducing it, porting it, or exporting it, or using it in producing a hybrid or different therefrom, to the extent provided by the Plant Variety Protection Act 42, as amended, 7 u.s.c. 2321 et seq.)

GARDEN BEAN

'Bwily'

In Testimony Winercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 17th day of June in

this 17th day of June in the year of our Lord one thousand nine fundred and eighty-two.

Attest:

Lennette A Cour Exting Commissioner Plant Variety Protection Office

Grain Division Agricultural Marketing Service Secretary of Agriculture

-	UNITED STATES DEPARTME AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	ETING SERVICE			FORM APPROVED OMB NO. 40-R3822	
	PLICATION FOR PLANT VARIE		N CERTIFICATE		nt variety protection may mpleted application form J.S.C. 553),	
1a. TEMPORARY DESIGNATION OF VARIETY		1b. VARIETY NAME			AL USE ONLY	
	GP 72115	BURLY		PV NUMBER 8100032		
2.	KIND NAME	3. GENUS AND SPE	CIES NAME	FILING DATE	TIME A.M.	
	Garden Snap Bean Wyglgz	Phaseolus vulgaris		12/5/80 FEE RECEIVED	12:30 P.M.	
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETERMINATION		\$ 500.00	12/5/80	
	Leguminos/lae Wysl82	Fall 1972		\$ <u>250.00</u>	3/10/82	
6.	NAME OF APPLICANT(S)	Code)	t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA CODE AND NUMBER	
ROGEF	RS BROTHERS SEED COMPANY	1	Box 80 Falls, Idaho 8	3401	(208) 522-0143	
9.	IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh		10. IF INCORPORAT	ED, GIVE STATE AND PORATION	11. DATE OF INCOR- PORATION	
	Corporation		Delaware	•	Feb. 25, 1975	
12.	NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Mr. Charles Green ROGERS BROTHERS SEED COMPANY P. O. Box 80, Idaho Falls, ID 83401					
13.	CHECK BOX BELOW FOR EACH ATTACK	HMENT SUBMITTED:				
	13A. Exhibit A, Origin and Bree	eding History of the	Variety (See Section :	52 of the Plant Variety	y Protection Act.)	
	X 13B. Exhibit B, Novelty Statem	nent.				
	X 13C. Exhibit C, Objective Descri	ription of the Variety	(Request form from	Plant Variety Protect	ion Office.)	
	X 13D. Exhibit D, Additional Des	cription of the Varie	ty.			
14a,	DOES THE APPLICANT(S) SPECIFY THA SEED? (See Section 83(a). (If "Yes," answ			RIETY NAME ONLY AS NO	A CLASS OF CERTIFIED	
14b.	DOES THE APPLICANT(S) SPECIFY THA LIMITED AS TO NUMBER OF GENERAT			B, HOW MANY GENER BREEDER SEED?	ATIONS OF PRODUC-	
	YES NO		FOUNDATION REGISTERED CERTIFIED			
15a.	5a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," name of countries and dates.)			NO (If "Yes," give		
15b,	HAVE RIGHTS BEEN GRANTED THIS Vand dates.)		NUNTRIES? TYES	NO (If "Yes,"	give name of countries	
				16		
16.	DOES THE APPLICANT(S) AGREE TO TH	E PUBLICATION OF I	HIS/HER (THEIR) NAM	E(S) AND ADDRESS IN	THE OFFICIAL	
17.	The applicant(s) declare(s) that a viable replenished upon request in accordance	e sample of basic see	d of this variety will l	oe furnished with the	application and will be	
	The undersigned applicant(s) is (are) the variety is distinct, uniform, and stable 42 of the Plant Variety Act.					
•	Applicant(s) is (are) informed that fals	se representation here		1 //	penalties.	
	Nov. 6, 1980	the section of the section of	Cha			
	(DATE)			SIGNATURE OF APPL	CANT)	

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties:

 (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.

DEC 5 1980

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF THE VARIETY

BURLY, an early to mid season, green podded garden bean was derived from the following hand-pollinated crosses.

[Asgrow BBL #274 x (Harvester x OSU 412)] x

[Asgrow BBL #274 x (Harvester hybrid x Gallatin 50)]

- * OSU 412 is a release of Oregon State University.
- ** A complex cross which included Harvester and USDA B 2530-6-2-4

The above cross was made during the Fall of 1968 and the following series of selections were made:

YEAR	GENERATION	FIELD PLOT	AMOUNT HARVESTED
1969	\mathtt{f}_2	691303	3 single plants
1970	f ₃	701495	3 single plants
1970-71 (winter)	$\mathtt{f_4}$	(Greenhouse)	Single plants increased
1971	f ₅	711589	2# 2 oz. bulk; 2 singles
1972	f ₆	72115	Bulked; 3 singles

The increase from Plot 72115 was bulked and this was used as the seed BURLY appears to be genetically uniform and stable, with the exception of the occurrence of approximately one flat pod plant per 1400 and one string type rogue per 30,000 plants.

Which that will replace the increased to production quantities.

BURLY appears to be genetically uniform and stable, with the exception of the occurrence of approximately one flat pod plant per 1400 and one string type rogue per 30,000 plants. source for subsequent increases toward the present production line. increased and evaluated. The most uniform of these lines will replace the

EXHIBIT A

(Supplement)

The \mathbf{F}_7 selection that will be used to replace the initial line is similar genetically to the initial line and will not change the essential features of the variety as described in this application.

EXHIBIT B

DATA INDICATIVE OF NOVELTY

BURLY most closely resembles the bean variety, Greenpak, except BURLY produces up to 20% more pods that are larger than five sieve than is produced by Greenpak.

Following is a two year comparison of percent seed, percent fiber and sieve size breakdown for BURLY and Greenpak, data taken at optimum harvest maturity for each variety. [per charles Green, 2/8/82].

,	YEAR	% SEED	% FIBER	1-3 SIEVE	4 SIEVE	5 SIEVE	6 or 7 SIEVE
BURLY	1977	8.0	.007	11	19	29	41
	1978	6.6	.019	6	18	31	45
GREENPAK	1977	4.7	.003	20	38	32	10
	1978	4.1	.004	20	35	36	9

EXHIBIT B

(Supplement)

Under normal growing conditions in Twin Falls, Idaho, the pods on BURLY reach prime harvest stage 2 days earlier than Greenpak and the average pod length of BURLY is 1 cm. shorter than Greenpak.

The actorion

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
BELTSVILLE, MARYLAND 20705

EXHIBIT C (Bean)

OBJECTIVE DESCRIPTION OF VARIET' BEAN (Phaseolus vulgaris L.)	Y Dans underwee
NAME OF APPLICANT(S) SERVE CONSUME OF APPLICANT(S)	FOR OFFICIAL USE ONLY
ROGERS BROTHERS SEED COMPANY	PVPO NUMBER 8100032
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)	VARIETY NAME OR TEMPORARY
P. 0. Box 80	DESIGNATION
Idaho Falls, Idaho 83401	BURLY (GP 72115)
Place numbers in the boxes (e.g. 0 8 9) for the characters that best describe this	s variety. Measured data should be for SPACED
PLANTS. Ranges may also be given. Royal Horticultural Society or any recognized color stan designate system used:	The location of test area is
Please answer questions appropriate for your variety if the infe	ormation is available.
1. TYPE: 10 September 2012 202 At 1921 1926 At 1921 1924 1924 1924 1924 1924 1924 1924	CANCEL STATE STATES
2 1 = Field (dry-edible) 2 = Garden	
2. MARKET MATURITY (at Twin Falls, Idaho)	
6 7 Days to edible pods which is a series against the series of the seri	s to green shells
0 9 0 Days to dry seeds	
	t units to green shells
20 5 4 1 20 Page 180 A.O.	
2 1 1 0 Heat units to dry seeds	
1 = Tendercrop 3 = Kinghorn W 5 = Michelite 62	lax 4 = White Kidney 6 = Dwarf Horticultural ake 290 8 = Other (specify below)
3. PLANT:	
1 = Determinate 2 = Indeterminate	To state 2 - glessy
0 4 3 cm height	The second of th
g with the specific s	रूपेच्या १४ म सिक्षेत्र क्षेत्रसम्बद्धाः स्थापकः । । -
Same as	v from above
1 2 cm taller than	ber primary branches near base
cm narrower than	2 Branching habit: 1 = compact 2 = open
1 0 cm wider than	
Main stalk: 1 = brittle 2 = wirey	2 1 = stout 2 = thin

3, PLANT: (Cont'd)	and the second of the second o	And the second section is a second section of the second section of the second section is a second section of the second section secti
Pod position: 1 = low 2 = high 3 = scattered	The first section	Salaria
Bush form (illustrated below):	Albud (1997) Santa Santa Sa	
The sense is the s	nes dus	
		A CONTRACTOR OF THE PARTY OF TH
A CONTRACTOR OF THE CONTRACTOR	A PROPERTY OF THE PARTY OF THE	
		1687.10
The state of the s		
1 = spherical bush form 2 = stem bush form	3 = wide bush form	4 = high bush form
5 = other (specify)		
2 1 = smooth 2 = wrinkled	1 = dull	2 = glossy
Size: 1 = small (Earliwax) 2 = medium 3 = la		
Size: L= smail (carilwax) 2 = medium 3 = 16	arge 4 renderer op/	en gergen Benederingen, under im 13 f. d. a. a. a
2 Color: 1 = light green (as light or lighter than Bounti 3 = dark green (as dark or darker than Bush B	lue Lake 290)	
5. FLOWERS:		प्रकृतिक प्रतिकारिक । १८८४म १९८४ - १८८४ - १८६४ - १८८४ १८८४
Color: 1 = white 2 = cream 3 = pink 4 = lilac		annamaka Masarika
4 7 Days to 50% bloom		
The property of the property o	TO I provide a transmission	
6. FRESH PODS: (Edible maturity, average for 20 pods)		
Exterior color: 1 = light green (as light or lighter than 2 = medium green 3 = dark green (as dark or darker than 1 light yellow (Prittleway)	` .	
4 = light yellow (Brittlewax) 5 = golden yellow (Cherokee Wax) 6 = green-red variagated (Horticultura	A company of the company	
7 = Other (specify)	er enggyager proposer er enggrammer er en en er bestelle der der der der der der der der der de	allier i kan menangan sampan samp Sampan sampan sampa
% Sieve size distribution a	t optimum maturity for non-flat pods	
Note: 1 = 4.76 mm to 5.76 mm 4 = 8.34 mm 2 = 5.76 mm to 7.34 mm 5 = 9.53 mm	no. evidené ji por ocjedená od je sektytejo m to 9.53 mm	1 No. 188
2 = 0.76 mm to 7,34 mm 5 = 9,53 mm 5, 3 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 +	nm orilargeryka sesa jang kanapanang ya	gen koloni fuziti e iyoti ara koloni fuziti e Dalaka a
the state of the s	19 1167 29/66	S112 41
11%	TANGER STATE OF THE PROPERTY O	DE FEMPORANT
3 sieve 1 0 cm length 0		nm thickness
4 sieve 1 1 cm length	9 mm width 2 1 1 1 1 1 1	nm thickness
The state of the s		nm thickness
6 sieve 10 4 cm. length	SCACE TO SCA	nm thickness

ROBIN TROSINTO TO ISSUE	OTOGOS
6. FRESH PODS: (Cont'd)	er en mantener. El monte em la compartene en marcola en la compartene en
Cross section pod shape: 1 = flat 2 = oval 3 = roo	und 4 = heart
Creaseback: 1 = present 2 = absent	
Pubescence: 1 = none 2 = sparse 3 = considerable	A made
Spur: 1 = straight 2 = slightly curved 3 = curved	ger 1869 (1854) September 1880 (1856) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (186 September 1886) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866) (1866)
Constrictions: 1 = none 2 = slight 3 = deep	Committee of the Commit
Pod flesh: 1 = light 2 = medium 3 = dark	COLUMN CO
2 0 mm spur length	Sections magging
Fiber: 1 = none 2 = sparse 3 = considerable	TO I see the marrow 1982
512 Number of seeds per pod 2000-000 pp. 1000-000-000	A company
Surface: 1 = smooth 2 = rough	
2 Suture string: 1 = present 2 = absent	() (1980) (1980) () () () () () () () () () (
Seed development (Snap Bean): 1 = slow 2 = medi	ium 3 - fast
Machine harvest: 1 = adapted 2 = not adapted	Distr yellow republicance
Pod flavor: (1) Standard (Tendercrop) (2) Mild Blue Lake (BBL 274) (3) Strong Blue Lake (Pole FM1) (4) Mild Romano (Roma) (5) Strong Romano (Pole Romano)	TV graces wester
t consequence to the content of the	The state of the s
7. SEED COAT COLOR: LONGORIA MENGER 1 1 = Monochrome 2 = Polychrome	1 = shiny 2 - duil
Primary color: 1 = white 2 = yellow 3	3 = buff 4 = tan
Secondary color: 5 = brown 6 = pink 9 = blue 10 = black	7 = red 10000 8 = purple 11 = other (specify)
Color Pattern: 1 = none 2 = splashed 3 = mottled	d 4 = striped 5 = flecked 6 = dotted
Secondary color location: 1 = hilar ring	2 = ventral surface 4 = dorsal surface area 6 = combination of location (specify below)
Hilar ring on colored seeds: 1 = absent 2 = narrow	
8. SEED SHAPE AND SIZE:	A ARC SECULO AND PROPERTY CONTROL OF THE CONTROL OF
Hilumoview: 1 = elliptical 2 = oval 3 = round	Cross section: 1 = elliptical 2 = oval 3 = cordate 4 = round
1 verSide view:	
The second course with	3 = reniform

4.5 mol 4.8. 1 2	#800 M NOV (N N N N N N N N N N N N N N N N N N		38 (A. B. 4)
8. SEED SH	APE AND SIZE: (Cont'd) >A9; (Claygoud s, QAB):	0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ing the first state of the stat
3	2 1 = truncate ends 2 = rounded ends 8 gm/100 seed		0
0	4 gm/100 seed lighter than the second seed 4	y stanca 2000-000 quarte a significação o processor y a concentral	
N RECE	gm/100 seed same as	comparison variety from page one	e d'arment est
		, year sagλ 3p*(e).	
[0	8 gm/100 seed heavier than	27. 3. 1937 de grant de la companya	
9. ANTHO	CYANIN: (1 = absent 2 = present) 3 = 3392 gudsusquid reporter conduct 1 = principal	ଟ୍ର ୧୦୦୬ ଓଡ଼ିଆ ଅଧିକ୍ର : ଜୁନ ୧୯୬୬ର ଅଧିକ୍ର :	
Flowers] Stems	Seeds 1 Leaves	
10. DISEAS	E RESISTANCE (0 = not tested 1 = susceptible 2 = resistant):		· · · · · · · · · · · · · · · · · · ·
	O Anthracnose (specify race below)	Tuscous blight 16	
	Rust (specify race below) at Beltsville, MD - believed to be	Red node virus	
No calendaries	Races #16 5& #23	Pod mottle virus	
Marie Salar	O Fusarium root rot	2 Bean common mosaic virus (specify strain belo	w)i
	Pythium root rot 23 2/1000 Sine san (Pole Picous of Sing Roots of	Mosaic mottle	
	Rhizoctoria root rot	0 Black root	
	Pythium wift	Bean yellow mosaic virus	•
	Angular leaf spot	Curly top	
	Bacterial wilt	Other (specify below)	
	Halo blight (specify race below)	** **	
11. INSECT	RESISTANCE: (0 = not tested in = susceptible 2 = resistant)		•
	Aphids Application of the street of the str	Root knot nematode DEC 5	1980
) [Leaf hopper	O Seed corn maggot	
	C. Lygus	0 Thrips	•
	Pod borer	Weavils	
	(2.11) Commission of the 2 total 2 total	Other (specify below)	·
12. PHYSIC	LOGICAL RESISTANCE: (0 = not tested 1 = susceptible 2 = res	istant)	
0 Heat	ter <mark>Octo Colde escent 5 and Octool Drought</mark> e, square	2 Air pollution (at Beltsville, ME))
13. COMME	INTS:		
	ing the state of t	La Company Com	0

EXHIBIT D

BOTANICAL DESCRIPTION OF THE VARIETY

BURLY is an early to mid season variety of Bush Blue Lake breeding, which reaches prime green harvest stage in 67 days at Twin Falls, Idaho, compared to 69 for the variety Greenpak. BURLY has a determinate bush that is more spreading and branching than Greenpak. The pods of BURLY are very straight and remain round until advanced stages of maturity, at which time crease-backing occurs. The pods are typically 13 cm long at Twin Falls, which compares to 14 cm for Greenpak. The variety, BURLY, is unique inasmuch as the seed development is slow, even through advanced maturity when more than 60% of the pods are five sieve or larger. The pods are dark green, typical of the Blue Lake pod color and the pod eating quality is typical of the Blue Lake type. However, the flavor is milder than the typical Blue Lake flavor.

state of Belaware



Office of Secretary of State

I, MICHAEL HARKINS, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT "ROGERS BROTHERS SEED COMPANY", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS CORPORATE TITLE TO "ROGERS NK SEED CO. ", ON THE TWENTY-SIXTH DAY OF DECEMBER, A.D. 1990, AT 10:01 O'CLOCK A.M.



AUTHENTICATION: M. Magnusha DATE: / 10/08/1991

DO NOT WRITE IN THIS SPACE

AMENDED
STATEMENT AND DESIGNATION
BY
FOREIGN CORPORATION

ROGERS NK SEED CO.	
	, a corporation
State of California, makes the fo	laws of <u>Delaware</u> d for the transaction of intrastate business in the ollowing statements and/or designation: ration has been changed to that hereinabove set forth
and that the name relinquished	
ROGERS BROTHERS SEED COMPANY	
	ROGERS NK SEED CO. (Name of Corporation)
	William B. alben
	(Signature of corporate officer)
•	na.
	William B. Albers, President (Typed name and title of officer signing)

INSTRUCTIONS:

- 1. If this Amended Statement shows a change of corporate name, there must be attached to this Amended Statement a certificate of an authorized public official of the state or place of incorporation, that such change of name was made in accordance with the laws of that state or place.
- 2. For filing this Amended Statement there is a fee of \$15.00.

State of Delaware Office of the Secretary of State

PAGE 1

I, WILLIAM T. QUILLEN, SERCRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "ROGERS NK SEED CO.", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "ROGERS SEED CO.", THE FIFTH DAY OF MAY, A.D. 1994, AT 9-0 CLOCK A.M.



William T. Zullen
William T. Quillen, Secretary of State

AUTHENTICATION:

7120759

DATE:

0810041 8320

13

STATE OF DELAWARE SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 09:00 AM 05/05/1994 944080001 - 810041

CERTIFICATE OF AMENDMENT

OF

CERTIFICATE OF INCORPORATION OF ROGERS NK SEED CO.

Adopted in accordance with the provisions of Section 242 of the General Corporation Law of the State of Delaware

EFFECTIVE DATE: June 1, 1994

We, Willem van Overschot, President, and Richard B. Geller, Secretary, of Rogers NK Seed Co., a corporation existing under the laws of the State of Delaware, do hereby certify as follows:

FIRST: The Certificate of Incorporation of the corporation was filed on 2/27/75.

SECOND: The Certificate of Incorporation of said corporation has been amended as follows:

By striking out the whole of Article I thereof as it now exists and inserting in lieu and instead thereof, a new Article I, reading as follows:

ARTICLE I

Name

The name of the Corporation is ROGERS SEED CO.

THIRD: Such amendment has been duly adopted in accordance with the provisions of the General Corporation of Law of the State of Delaware, by the unanimous written consent of all of the stockholders entitled to vote in accordance with the provisions of Section 228 of the General Corporation Law of the State of Delaware.

FOURTH: See attached Written Consent of Sole Shareholder and Board of Directors' Resolution.

IN WITNESS WHEREOF, we have signed this certificate this day of April 1994.

Willem van Overschot, President

Richard B. Geller, Secretary

14

ROGERS NK SEED CO.

WRITTEN CONSENT OF SOLE SHAREHOLDER

SANDOZ CORPORATION, owner of all of the issued and outstanding shares of ROGERS NK SEED CO., hereby consents, pursuant to Section 228 of the Delaware General Corporation Law, to the adoption of the following resolution as and for the act of the shareholder:

RESOLVED, that SANDOZ CORPORATION, as sole shareholder, approves the amendment to Article I of the Certificate of Incorporation of ROGERS NK SEED CO., changing its name to ROGERS SEED CO.

Dated: 1994

Heinz P. Imhof, Chief Executive Officer Sandoz Corporation

ROGERS NK SEED CO.

RESOLUTION

RESOLVED, that according to Section 242 of the General Corporation Law of the State of Delaware, that Article I of the Certificate of Incorporation be amended, effective June 1, 1994, to read as follows: The name of the Corporation is ROGERS SEED CO.; and, further,

RESOLVED, that the appropriate officers of Rogers NK Seed Co. be, and they hereby are, authorized to take any and all further action and execute and deliver any and all further documents that may be necessary or desirable in order to carry out and effectuate fully the purposes set forth in the foregoing resolution.

ADOPTED UNANIMOUSLY BY THE BOARD MARCH 31, 1994

Richard B. Geller, Secretary

State of Delaware Office of the Secretary of State PAGE 1

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"ROGERS SEED CO.", A DELAWARE CORPORATION,

WITH AND INTO "NOVARTIS SEEDS, INC." UNDER THE NAME OF "NOVARTIS SEEDS, INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-FIFTH DAY OF JUNE, A.D. 1997, AT 9 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



Edward J. Freel, Secretary of State

AUTHENTICATION:

8531908 06-26-97

DATE:

STATE OF DELAMARE SECRETARY OF STATE DIVISION OF CORPORATIONS FILED 09:00 AM 06/25/1997 971211767 - 0829320

CERTIFICATE OF MERGER OF ROGERS SEED CO. INTO NOVARTIS SEEDS, INC.

The undersigned corporation organized and existing under and by virtue of the General Corporation Law of Delaware,

DOES HEREBY CERTIFY:

FIRST: That the name and state of incorporation of each on the constituent corporations of the merger is as follows:

NAME

STATE OF INCORPORATION

Novartis Seeds, Inc. Rogers Seed Co.

Delaware Delaware

SECOND: That an Agreement and Plan of Merger between the parties to the merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations in accordance with the requirements of section 251 of the General Corporation Law of Delaware

That the name of the surviving corporation is Novartis Seeds, Inc.

EQURIH: That the Certificate of Incorporation of Novartis Seeds, Inc., a Delaware corporation which will survive the merger, shall be the Certificate of Incorporation of the surviving corporation.

EETH: That the executed Agreement and Plan of Merger is on file at the principal place of business of the surviving corporation, the address of which is 7500 Olson Memorial Highway, Golden Valley, MN 55427.

SIXTH That a copy of the Agreement and Plan of Merger will be furnished by the surviving corporation, on request and without cost, to any stockholder of any constituent corporation.

SEVENTH: That this Certificate of Merger shall be effective on July 1, 1997.

Dated June 23, 1997

NOVARTIS SEEDS, INC.

Name: Edward C. Resler

Title: Vice President & General Counsel